## IN THE CLAIMS

- 1. (Cancelléd)
- (Currently Amended) A semiconductor memory device comprising:
   a voltage level detector configured to sense a voltage and configured to generate a
   power-up signal while the voltage is less than a minimum voltage required to operate the
   device;

a command register configured to generate a command busy signal;

a ready/busy driver controller configured to generate a busy enable signal in response to the power-up signal and the command busy signal; and

a ready/busy driver<u>configured to drive a ready/busy signal in response</u> that is responsive to the busy enable signal; and.

a command register coupled to an input of the ready/busy driver controller.

- 3. (Previously presented) The semiconductor memory device of claim 2, wherein the command register comprises:
- a program command register configured to provide a program busy signal to the ready/busy driver controller; and

an erase command register configured to provide an erase busy signal to the ready/busy driver controller.

- 4. (Previously presented) The semiconductor memory device of claim 3, wherein the program busy signal indicates that the memory device is in a program mode.
- 5. (Previously presented) The semiconductor memory device of claim 3, wherein the erase busy signal indicates that the memory device is in an erase mode.
- 6. (Currently Amended) The semiconductor memory device of claim 12, wherein the ready/busy driver controller comprises:

a control signal generator configured to generate a first and a second control signal in response to the power-up signal; and

a level shifter configured to generate the busy enable signal in response to the first and second control signals.

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7. (Currently Amended) The semiconductor memory device of claim 12, wherein the ready/busy driver comprises:

a ready/busy pin;

an open drain driver configured to set a voltage at the ready/busy pin in response to the busy enable signal; and

a pull up load connected to the ready/busy pin.

- 8. (Previously presented) The semiconductor memory device of claim 7, wherein the memory device is in a busy state during a power-up period when the voltage at the ready/busy pin is at a low state.
- 9. (Previously presented) The semiconductor memory device of claim 8, wherein the memory device is in a ready state after the power-up period.
  - 10. (Cancelled)
  - 11. (Previously presented) A semiconductor memory device comprising:
  - a voltage level detector configured to generate a power-up signal;
- a ready/busy driver controller configured to generate a busy enable signal in response to the power-up signal; and
  - a ready/busy driver that is responsive to the busy enable signal;
  - wherein the ready/busy driver controller comprises:
- a control signal generator configured to generate a first and a second control signal in response to the power-up signal; and
- a level shifter configured to generate the busy enable signal in response to the first and second control signals.
  - 12. (Previously presented) A semiconductor memory device comprising:
  - a voltage level detector configured to generate a power-up signal;
- a ready/busy driver controller configured to generate a busy enable signal in response to the power-up signal; and
  - a ready/busy driver that is responsive to the busy enable signal; wherein the ready/busy driver controller comprises:

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a ready/busy pin;

an open drain driver configured to set a voltage at the ready/busy pin in response to the busy enable signal; and

a pull up load connected to the ready/busy pin.

- 13. (Previously presented) The semiconductor memory device of claim 12, wherein the memory device is in a busy state during a power-up period when the voltage at the ready/busy pin is at a low state.
- 14. (Previously presented) The semiconductor memory device of claim 13, wherein the memory device is in a ready state after the power-up period.
- 15. (Currently Amended) A semiconductor memory device comprising:
  a voltage level detector configured to generate a power-up signal;
  a command register configured to generate a command busy signal;
  a ready/busy driver controller configured to generate a busy enable signal in response to the power-up signal and the command busy signal; and

a ready/busy driver configured to drive a ready/busy signal in response that is responsive to the busy enable signal; and.

a command register coupled to an input of the ready/busy driver-controller.

16. (Previously presented) The semiconductor memory device of claim 15, wherein the command register comprises:

a program command register configured to provide a program busy signal to the ready/busy driver controller; and

an erase command register configured to provide an erase busy signal to the ready/busy driver controller.

- 17. (Previously presented) The semiconductor memory device of claim 16, wherein the program busy signal indicates that the memory device is in a program mode.
- 18. (Previously presented) The semiconductor memory device of claim 16, wherein the erase busy signal indicates that the memory device is in an erase mode.

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19. (Previously presented) A method of operating a semiconductor memory device, the semiconductor memory device including a voltage level detector, a ready/busy driver controller, a ready/busy driver, and a command register, the method comprising: sensing a voltage with the voltage level detector;

generating a power-up signal with the voltage level detector when the voltage is less than a minimum voltage required to operate the semiconductor memory device; and

generating at least one busy signal with the command register, the at least one busy signal indicative of an operational state of the semiconductor memory device; and

generating a busy enable signal with the ready/busy driver controller in response to the power-up signal and the at least one busy signal.

- 20. (Previously presented) The method of operating a semiconductor memory device of claim 19, wherein generating a busy signal comprises generating a program busy signal.
- 21. (Previously presented) The method of operating a semiconductor memory device of claim 19, wherein generating a busy signal comprises generating an erase busy signal.
- 22. (Previously presented) The method of operating a semiconductor memory device of claim 19, further comprising generating a busy enable signal with the ready/busy driver controller, the busy enable signal generated when at least one chosen from the group consisting of the power-up signal and the busy signal is at a logic high state.
  - 23. (New) A semiconductor memory device comprising:

a voltage level detector configured to sense a voltage and configured to generate a power-up signal while the voltage is less than a minimum voltage required to operate the device:

a ready/busy driver controller configured to generate a busy enable signal in response to the power-up signal, and including:

a control signal generator configured to generate a first and a second control signal in response to the power-up signal; and

a level shifter configured to generate the busy enable signal in response to the first and second control signals;

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a ready/busy driver that is responsive to the busy enable signal; and a command register coupled to an input of the ready/busy driver controller.

24. (New) A semiconductor memory device comprising:

a voltage level detector configured to sense a voltage and configured to generate a power-up signal while the voltage is less than a minimum voltage required to operate the device:

a ready/busy driver controller configured to generate a busy enable signal in response to the power-up signal;

a ready/busy driver that is responsive to the busy enable signal, and includes:

a ready/busy pin;

an open drain driver configured to set a voltage at the ready/busy pin in response to the busy enable signal; and

a pull up load connected to the ready/busy pin; and a command register coupled to an input of the ready/busy driver controller.

- 25. (New) The semiconductor memory device of claim 24, wherein the memory device is in a busy state during a power-up period when the voltage at the ready/busy pin is at a low state.
- 26. (New) The semiconductor memory device of claim 25, wherein the memory device is in a ready state after the power-up period.